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PAINTENANCE, REPAIRS AND ALTERATIONS
OF U.S. MERCHANT SHIPS UNDER
LEVE LEASE TO THE USER

8 July 1954

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MAINTENANCE, REPAIRS AND ALTERATIONS OF U. S. MERCHANT SHIPS UNDER LIND LEASE TO THE USE

				HAINTENANCE, REP	PATRS AND ALTERA	rions of t. s	, MERCHANY SHIPS UNDER LEND LEASE TO THE USER			
Anigle Hear		U. S. british wat?		ease 200	Subs of Overland		RDP79T01049A001000010002-7  Description of Reputry and Albertelions		Spares Provided	Gost of Overheal U. S. S
Descript Services			Anterry	Belgion	1969-	Completed 2	See enclosure 1. Mill plate renovals and strongthening, extensive engine repairs.	(Mas-Mare)	Extensive.	(20,40)
	71.96								See enclosure 1.	
		O.A.B.M.	Gentle.	Italy	5/4/52	8/20./52	Deaths bottom and frame strengthesed for ice, overhealed engines and meters. See each cours 2.	190		\$400,000
			Kiel	Contractor	W/23/2					
Actuald			<b>Ventos</b>	Rely	3/5/92	1/23/52	Repairs and overheal.	121		
	71.96	Brode Sard	Venige	Rely	2/15/53	k/11/53	Imposition and repair of hall, dissentling and repair of main orgino and satisfary manhancey. Opening.	148		
Del grandia	\$840	Reds Sard	Ventee	Rely	10/25/51	2/7/安	Repairs and overheal.	69		74,000
·	,									
Downs		Septem-Her Ct.	Rostek	E. Germany		12/ /90				
	980k	Marral Meccanica March	Haples	Dely	2/20/%		Repairs expected to take four menths.			
									¥	
Istra (em-	(rer)		Louingrad	und.	1952		Repairs.			
Ivan Palson	71.76	Herountile Merine Regimeering and Graving Dooks Co., S.A.	kelency	Belghan	1/11/50	8/19/50	See exclusions 3. Repair of hall design, extensive engine and belief repairs		Extensive. See exclosure 3.	
			latemany	Balgim	1989-		See emilesere &. Automive hell reprint, min angine and shallting realigned, agin confuser retailed, belier retriebed.		Taileant & packing	
			lehioden .	Hotherlands	3/12/52	6/10/52				
Imeil	<b>%10</b>	Breda Xard	Fender	Italy	10/2/51	12/6/51		134		112,000
	***************************************									
Joan Juane	7276	Herentille Herine Engineering and Graving Docks Col., S.A.	interp	Belgius	h/21/51	6/19/51	See enclosure 5. Releasive repairs of damped hall, major engine overheal.		Pump, seels and packing, propeller	
		Notesnocandos Meralo	Jesses.	Italy	3/9/93	14/25/53	Maser repetre	3,60		
E-moneto P		Revoluceouxies Turks	Seples	Italy	2/ /51 (1)	5/ /91		865		98,000
	722.6						· ·			

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		Sam Approve	d For Rel	lease 20	00/05/ <sup>-</sup>	15 : CIA	A-RDP79T01049A001000010002-7			
		U. S. britanis on	Louisidon		Note of Constant			Kekinghel	- Apares	Coats of
2	diple Name CRE	Inputs Seri	CENTE	Country	Owntent Comment Owntebed		Description of Repairs and Alterations	Labor (Man-Share)	Previded	Overhead. V. S. \$
Europenia	ster	Allorinesti S' Monetrajimi Bari	General.	Bdy	10/ /51	12/20/51	Changed outside platting, wise, topside repairs and repairs of pixting, removal of weeks partitions of bottom hold, elecating of califier double bettom.	107		81.05,000
				Y Y						
lier.	3283		Varnoueste	X, Garmey	7/2/32		Beller and engine overhead.			
Kiror			inlik	USGE .	19		· · · · · · · · · · · · · · · · · · ·			
	пж	Reseased Harino Ingineering and Graving Reak Co., S.L.	Antonorp	Delgion	P\JTP\27	8/10/91	See employer 6. Retensive sepairs of hall desage and strongthening for ion, alignment of main engine and whefting.			
Kelkhognik		Envilancemies Scignari	Neglos	Italy	3/21/51	\$/12/51		67		66,,000
	71.9%	Marelancoanion Suignard	Maples	Italy	3/10/52	5/20./52	Repairs and starbush,	161		,
		C.C.R.I. Mord	Genton	Italy	3/14/53	1/30/53	Miner regules.	12.		
Kubasa	7176	Mercentile Narine Engineering and Graving Deak Cats, Sats	iology	Delgina	7/1./10	3/9/40	des confesers ?. Reil plate repuire à resonale, major engine courbant.	<del></del>	l steel prepeller, plus two on order.	
				Belighen	8/ /90		Repaire			
		Hereantile Marine Engineering and Graving Dock Go., S.A.	Anherp	Belgion	F/19\2	6/3/52	See conlocure S. Hiner bull require, realignment of main engine and shaft.		Tailshaft, steel propell and machinery spares.	let .
		Navelencession Shippard	Negloo	Rdy	5/4/54		Repairs aspected tolast à to 6 months.			
Lernoster	6077	Officine Riperations News Others Torns Crisade	Gerna.	Itely	10/17/91	12/21/51	Superved and replaced plating, repaired topoids structures, piping, removal of topoing partitions of bottom hald.	114		112,000
Omale	5638	Claire Godde	Cente	Italy	12/19/51	h/2h/52		22.2		90,000
Plebunov	5630			Great Britein	2/15/52	k/10/52		32		
	<b>3430</b>									
Pologie			<del></del>	Relgion	6/8/10	1/2/10				<del></del>
	73.76	S.V. Bloom Vaterans		Balgion	<b>8/</b> /90					
		Serie Richard Williams	Selsinden.	Noticed ands	3/26/52	1/1/92	Des conlectors 9. Despitets overhead of held and fittings, noters, engines and pumps. Installation of CO <sub>2</sub> fire antinguishing system.		Extensivo. S-a enclosuro 9.	238,000
							1			

Gi Gi	s Hame :	Repair Zerd	Cite	Country	Overhe	ml	Description of Repairs and Alterstians	Labor	frowlded	Overbe
-				<del> </del>	Commenced	Completed		(Man-Tears)		t. s.
ine				Italy	4/17/52	7/6/52				
7	21.6		Naples	Italy	10/ /53					
nigerien										
Registry)										
stopol				Polghun	5/22/50	6/2/50				
7.	176			Belgion	8/ /90					
			Anteerp	Selgine	1949-5	22	Extensive plate repairs, remeand of stack, all machinery opened and repaired, main	122	Steel propeller and tail	
							condensor retabed, extensive electrical repairs. Installed flyshed on main engine		chaft.	
							thrust shelt, replaced 10-5 tom wood booms with steel booms (5-tom).			
		Graving Books Co., S.A.								
		Hercentile Regime Engineering and	Antwerp	Balgian	12/14/50	12/23/50	Overheal of rubber and steering engine.			
		0.T.O. (la Brasia) Shipperds		Italy	4/5/52	5/26/52	Repair and overhead of hall, machinery and engines,			
tokaya Cav		Varnos-Herit	Varnessusade	E. Germany	/ /50	4/26/52	See enclosure 11. Spinforcement of hall, ever-haul of dack machinery, heating system,			
anima our	_						etc.			
,	176		Ameterdam	Metherlands	4/26/51	5/19/51	Towed here for dry decking from Bast Cornery.			
•	-,-	Warness-Mar F&	Herromande	E. Germany	5/19/9	6/10/91	Continuation of everhaul communed in 1950. Installed 50-ton book.			
		Mayalmoormies Shipperd	Sanles	Italy	2/81/53	5/16/53	Sepairs of a general unture.			
		maranassa sangga a	Itel.	V. Cornery	1/23	3/54	Undergoing repairs.			
			-			.,				
Insted			jatasep	Polgium	1949-5	52	See emclosure 10. Himor ball repairs, realignment of main engine and shafting.		20 main shaft coupling	
									bolts, packing and springs.	
,	176	Brede Terd	Tendos	Itely	3/37/53	k/30/51		101		
'	-10	Seth, Drylock and Shipbuilding Co.	Asterdan	Notherlands	2/13/52	5/19/52		137		
		and any only and any			4	.,,				
904		trada Yard	Verice	Italy	1951			102		1
	27.2	Carried Inc.		Hetherlands	10/30/51	1/19/52		1,20		
	IETE									
Licery			Ole sta	BESR.	1957	2				
	671	C.O.R.I. Bard	Oknon	Italy	1/19/5	2/14/94				
						,				
							<b>\</b>			
as Sheveher	rico	Revolutionenies Shippard	Nples	Italy	1/16/52	7/7/52	See enclosure 12. Repair of redder, propeller and shaft, mise. repairs to	1.59		
	622						motors and ball.			
risser		Newslancounics Shippard	Heril.es	Italy	9/21/51	11/21/51		72		

	Ship's Home ORT	Repair Tard	City	Country	Date of Overheal Commenced		Description of Repairs and Alterations	Estimated !abor (Hen-Years)	Spares Provided	Cost of Overheal
Tonek	5557		Riga	USSR						
Tongus	73.94	Noth, Drylogic and Shipbuilding Co.,	Amsterdam	lietherlands	12/5/52	1/9/53	See emplowere 13. Drydowking, routine maintenance plus recessal of hall platting and replacement of damaged hall sections.	60		Title of the state
Youtok	5763	Nevalneconics Chippard	Haples Khereon	Italy USS?	11/15/51	2/26/52	Overheated radder, obliged and repainted ball, replaced running rigging, replaced how plates (probably adding ice strengthening.	76		90,000
Vtoray: P	a yatiletka 5757		Sciledan Flishing	Notherlands Setherlands	11/8/51 4/24/53	2/23/58 6/12/53	Ball repairs. Arrived under tow from Higs, USGR,	30 770		
2yrian	in	Sevelmeccanice Shipperd	He;les	Italy	3/ /54					

# SECRET U. S. OFFICIALS ONLY

S. S. Americk Strokel

The following is a rescription of the repairs and alterations accomplished at antwerp, pelgium, during the period 1969-1952:

r/ dock time - 20 days

lotal repair period - 60 working days

#### dull mepairs

extensive bottom and topside steel work.

ice stiffening installed.

adder reinforced to A.J.S. receirements.

approx. 203,955 pounds steel used for repairs, renewals and new installation.

#### ngine depairs

xtensive - major items as follows:

dain engine and shafting realigned.

White metal renewed in bearings.

New piston rod and valve rod packing installed.

ccentric strass remetaled.

 $h^\mu$  tubes in both boiler renewed also insulation part renewed.

installed smoke detectors.

Jeck which cylinders relagged and covered with sheet metal.

Extensive pipe renewals to deck whiches.

extensive electrical work.

#### spares furnished

Main engine eccentric strap.

cross head tearings.

Connecting rod.

Fiston rod.

Connecting that for rocker lever.

Lippom Vitae strips for stern tube.

dain engine piston rod and valve stem packing.

#### Stores Supplied

Ten (10) winch runners.

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SEGRET

Installations and Alterations Clark AS ONLY

ien (10) 5 ton steel booms installed.

how voltage switchboard installed.

Transformer installed.

Indicators for main engine cylinders.

essel completed special survey

LGRET

U.S. Company CALY

Spolosure 2

U. S. OFFICIALS ONLY

S.S. ALEXANIA SUVOROV

The fellowing is a description of the repairs and alterations accomplished by the shippard Officine Allestimento Riparasioni Navi, Ganoa, Italy, during the period 4 May 1982 to 21 August 1952.

#### 1. HULL REPAIRS:

- a) kenewing and repairing hull plates from keel to upper water line;
- b) Fartial removation of the double-bottom, i.e., the floorboard, the keelson and the cross ribs, with relative joint plates and support sections:
- c) Repairing and renovation of the hull structure, the frame and the deak beams. Repairing and renoving portions of the bulwarks:
- d) Building new ice-supports by placing recritical frames in the prowsome between the existing frames and by placin; horizontal supports from the bow post to the bulkhead of hold # 1. Place corner spinforcements welded in connection with compartment bulkheads of the holds:
  - e) Partial renewing and repairing of the rolling chucks;
- f) Fartial renewing of the internal structure of the rudder and total renewing of the 3 external shell;
  - g) Renewing of rotten bottom planks;
- h) Repairing all the sea cocks and the outboard exhausts, changing valves meers necessary; and
- Building new derricks, renewing the steel sor s of the yard-arms and of the anchors; repairing and renewing the blocks and the wheels and axles.

#### 2. ENGINE REPAIRS

- a) Repairing the main steam motor; making the necessary micrometric check of the line of axis and linkage; adjusting the booms, the crossheads, the turns, the jackets and the cylinders; adjusting the bushings and bearings by changing and correcting the metal; correction of the came;
- b) Repairing the sumilary motors and the circulation pumps, the dissel oil thrust pumps, the bilge pumps and the toilet pumps; repairing the electric generators and the motor generators;
  - c) Repairing the refrigerating plant in the food storage lookers;
- d) Repairing the two hot water boilers, strengthening the walls and the diaphragas; renovating the fire proof masonry of the furnaces; repairing the dissel oil nozzles; and
- Approved For Release 2000/05/15 CIA RDP79T0104940000010002-7 in the tanks.

## SECRET

Enclosure 2 (cont)

#### 3. ELECTRICAL REPAIRS

a) Replacing rooted electric wires in the engine and boiler rooms; installing high-volt pluge; installing a new convertor for low-voltage lighting; removing the alarm system network from the batteries and inserting it in the sl20 volt network; replacing the water tight and glass ceiling bowl lamps where necessary.

SEURET

# anclosure 3 U. S. OFFICIALS ONLY

o. C. EVA. PondUHCV

The following is a description of the repairs and alterations accomplished by the Hercantile Marine Angineering and Braving Books Co., S. A., Antwerp, Belgium, Suring the period 27 April 1950 to 27 July 1950.

ry dock work days - 76

#### Hall de mirs

extensive bottom and topside damage.

Opper and lower stringer in do. I nold were reinforced with butt straps.

approximately 195.516 pounds steel used for renewals.

792 rivets renewed.

#### angine depairs

boilers rebricked.

New water end for sanitary pump made and installed.

extensive repairs and renewals to food jumps.

extensive repairs to main engine.

ech winch repairs and renewals above normal.

Rods on auxiliary circ Lator and condensate pump renewed.

kvensive steering rengine and rudger work.

blensive repairs on steam generator ongines.

Sala circulator engine and impeller case opened repairs

affected and engine closed.

Walrigerator condenser and compressor overhauled.

Calley range rebricked.

#### Spares nurnished

Spare rings for water end, piston and piston valves for feed pumps and sanitary group supplied by Contractor.

spare steel propeller from S. S. PSKOV placed aboard.

Two (2) steel built up propellers ordered.

Five (5) shows or anemer chain furnished by Contractor placed aboard as spare.

Three shts metallic packing for main engine piston rods and three sets for

valve rods supplied by contractor and placed aboard as spares.

One (1) ring for Leve

a a arr

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FT

Spares Aurnisned Continued

II S. GENERALS ONLY

one (1) eccentric strap complete.

one (1) giston rod.

iurbine cutters for boiler tubes

bethe spares - check - 3 gears, 1 - 12 teeth,

i - 5h teeth and i - sh teetin.

#### Stores Supplied

done

#### Installations and Alterations

Two (2) wood booms removed and replaced with

(2) 5 ton steel booms.

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n. S. Cirrins Only

### SECRET

# U. S. OFFIGIALS ONLY

#### saclesure 4

S. S. IVAN PORTERIN

The following is a description of the repairs and alterations accomplished at intwerp, delgham, dering the period 1969-1952.

dry dock time - 20 days

Total repair period - 30 working days

#### Hall depairs

Excensive bottom and topside steel work.

Approx. 76,000 pounds steel used.

hall light to deep load port and starboard sides scaled to bare metal and two (2) coats red lead applied.

#### ingine lepairs

extensive - major items as follows:

hain engine and shafting realigned.

builer reuricked.

wake condenser retured.

seck winch renewals extensive, all cylinder lagged and covered with sheet metal.

#### dpares furnished

Spare tail shaft

Lignum Vitae strips for stern tube.

coiler tube turbine cleaners, 2 for l' and 2 for 2" tubes.

Stores Supplied - None

#### Installations and Alterations

ien (10) 5 ton steel booms installed.

Stone ballast removed from #2, #3, #4 and #5 lower holds.

New wheel house installed upper steering station - flying bridge deck.

Wew lathe installed.

Smoke stack renewed.

manel in the and to hold sheathed with wood ceiling.

lectric gas analyzers installed on boilers.

Vessei completed special survey.

### SEGRET

U. J. Grana UALY

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#### inclusure 5

#### S. S. JEAN JAURES

The following is a description of the repairs and alterations accomplished by the descantile marine Engineering and Graving Books Co., A. A., intwerp, Selgium, during the period 21 April 1951 to 19 June 1951.

ory dock time - 20 days

rotal repair tame - ho working days

#### mull depairs

extensive plate repairs and renewals due to damaged bottom.

approximately 102,700 pounds steel used.

Approximately 1,000 rivets renewed.

#### engine Repairs

Main engine and shafting realigned.

Remetalling of bearings above normal.

all pumps overhauled - cylinders bored and plungers built up.

New abonite rings fitted and pumps closed in good order.

extensive overhaul on deck winches.

All branch lines renewed to control valves.

All piston rings renewed, total (10).

Main condenser retubed.

Boilers repricked, insulation on case renewed.

electric fixtures renewed.

New propeller installed, old one left aboard vessel as spare.

New tail shaft installed.

#### Spares Fernished

Spare case iron and ebonite rings for every pump abound vessel supplied by Contractor.

200 wood hatch covers supplied and placed aboars by contractor.

Set of lignum vitae strips for stern tube.

#### Stores Supplied

furbine boiler tabe cleaners, I for ha and I for 2" tube.

#### Installations and Alterations

Four (h) new life woat davits installed.

Converter 115-12V placed aboard.

Vessel completed special survey.

IRGIS

# SECRET

# malosure 6 U. S. CARRIALS ONLY

S. S. KIROV

The following is a mescription of the repairs and alterations accomplished by the Mercantile Marine Engineering and Graving Books Co., S. A., Antwerp, Belgium, during the period 14 April 1951 to 10 August 1951.

Total repair time - 95 working days

#### Hull Repairs

Extensive plate regains and renewals due to damage.

extensive pipe line renewals in way.

Approx. 171,000 pounds steel used, including ice stiffening.

#### Angine Repairs

Main engine opened and engine and shait aligned.

#### Installations and alterations

Additional ice stiffening installed.

Vessel completed special survey on hull.

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LS CITTO BALY

# CORET 1 U.S. CTIMIS ONLY

S. S. AUBAN

The following is a description of the repairs and alterations accomplished by the derivatile Marine Engineering and Graving Books Company, S. A., Antwerp, Belgium, during the period 11 July 17h9 to 9 August 19h9.

Time in dry dock - 13 days

#### imil depairs

Minor damages, plate repairs and renewals.

Audder reinforced to 4. S. S. requirements.

dalley smoke stack renewed.

#### Engine lepairs

Major repairs as follows:

Main engine stripped - realigned and assembled. Three (3) bearings remetalled.

Auxiliary circulator pump renewed.

Attached air pemp cylinder liner recored and plunger fitted.

all pumps opened, overhauled and closed.

soilers rebricked.

Pan Engine steam cylinder rebored and piston and rings fitted.

Tail shaft bronze liner machined.

#### pares Furnished

One (1) steel propeller aboard as spare and two (2) steel propellers on order as spare.

#### Generator Ingine Spares

Six (6) piston rings.

Inree (3) piston valves.

#### Feed rumps

Iwo (2) piston valves.

Four (h) pilot valves.

#### Fuel Gil ressure Fumps

Sixteen (16) rings for steam piston.

Sixteen (16) rings for plunger.

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# SECRET

#### Attached Air Aumo

Forty eight (46) Hinghorn valves. U. S. UTTISHIN UMLY

Auxiliary condenser eight (6) tubes.

Fifty (50) boiler hand hole gaskets.

Four (h) roller bearings for fresh water pump.

Four (h, main feed valve discs.

Iwo (2) sets of piston rings for ballast pump.

#### Stores Supplied

four (b) 5 gailon tins of brickseal.

#### Installations and Alterations

None

Special Survey on Hull completed.

PRET

U.S. William GALY

#### ENGLOSURE (

U. S. OFFICIALS ONLY

#### S. S. KURAN

The following is a description of the repairs and alterations ascomplished by the Mercantile Marine Engineering and Graving Docks Co., S. A., Antwerp, Belgium, during the period 16 April 1952 to 3 June 1952.

Time in dry dock - 13 days.

#### Ball Repairs

Minor repairs - Hull completely painted inside and out. Radder repaired.

#### Engine Repairs

Main engine and shafting realigaed.

All pumps opened, repaired and closed in good order.

Seven (7) new telephones installed.

Pipe renewals to dack winches extensive.

Main and smalliary condensers tested and repaired.

Boilers rebuilt.

#### Spares Purnished

Spare tail shaft. Spare steel propeller.

Excessive machinery spares supplied and placed aboard by Contractor.

Tem (10) port light glasses supplied and placed aboard by Contractor.

#### Stores Supplied

Stores supplied and placed aboard by Contractor.

Electric chipping hammer supplied,

Two (2) turbine boiler tube cleaners, 1 for ha tubes and 1 for 2" tubes.

Approximately 2,500 pounds paint supplied by Contractor.

#### Installations and Alterations

Tesk wood wheel house built for upper steering station - flying bridge deck.

Bu accommodation ladder installed.

Rock ballast removed from #2, #3, #k, and #5 lower holds.

Alteration to crews' quarters.

New lethe installed in work shop.

Fuel oil discharge by-pass installed at strainer.

Main engine indicators (3).

Vessel completed special survey.



U. S. CHEMAIS ONLY

#### ENCLOSURE 9

#### S. S. PSKOY

The following is a description of the repairs and alterations accomplished by the shippard N. V. Nieuwe Waterweg, Schieden, Natherlands, during the period 26 March 1952 to 1 July 1952.

#### A. Hall Repairs

- 1. Supplied tags, harbor pilot and boatmen for shifting vessel from dockyard harbor into drydock and out of drydock back into dockyard harbor, incl. 20 days drydock dues.
- 2. Bettom and boottop cleaned of fouling and afterwards painted with one coat of anti-corrosive and one coat of anti-feuling paint. (total 3700 square meters). 500 square meters of bottom and beottop-plating scaled of rust to the metal and painted with one additional coat of anti-corrosive paint.

Draftmarks on stem and stern, also Plimsell marks repainted.

- 3. Ander removed to workshop, lower bearing bushing renewed. Ander stock guide bearing taken off and new bronze bearing instabled. Buider stock journal trued up in way of guide bearing. 8 rudder stock guide bearing fastening bolts removed. Onlide bearing lined up and fitted lugs to the stern-frame. 2 outside holes removed out and new bolts fitted. Installed lub, oil pipeline and die, 2 m. long. Upper thrustbearing examined thoroughly and typer thrust surfaces machined. Bronze strips (2) made and installed for typer surfaces. Renewed part of rudder bodyplating. Tested rudder body and rudder piece for leaks.
- 4. 472 running meters of welded seems and butts of bottom and shellplating chipped out and revelded.
  - 5. 195 square meters of bottom and shellplating 16 mm. thick renewed.
- 6. Tailshaft drawn, removed to workshop, placed in lathe for inspection and afterwards replaced on board. Spare tailshaft removed to workshop, propeller tried with and without key and this shaft brought back on board and coupled up. Coupling boltholes in spare tailshaft remed and 6 new coupling bolts made and fitted. Lignum vites in sternbush and nackbush removed. Bronze neckbush removed 425 mm. dis. 500 mm. long. One spare set of lignum vites for sternbush and nackbush supplied. Sterngland repacked, incl. supplying newpacking. Tunnel shafting lined out and adjusted.
  - 7. 300 rivets in shellplating and frames partly renewed and partly welded.

### SECRET

- 8. All fuel oil tanks, incl. deeptanks 

  2000 m<sup>3</sup> opened up, cleaned and made gasfree, excl. removing and storing of fuel oil and subject normal sediment in tanks, afterwards reclosed, incl. removing broken study and gaskets of manhold doors.
  - 9. All fuel oil and waterballast tanks filled and tested for survey.
- 10. 16 sea connections opened out, cleaned, valves and seats ground in, repacked and reclosed.
- 11. 20 sincplates fitted on rudder and sternframe in way of brass propeller  $(150 \times 90 \times 25 \text{ mm.})$ .
- 12. Bilge ceiling andsteel covering plates over bilge ceiling in carge holds No. 2, 3, 4, and 5 removed, bilges cleaned, scraped and painted with two coats of paint, £ 200 m<sup>2</sup>, bilge ceiling and steel plates refitted and 210 sq. m. wood ceiling and 210 sq. m. steel covering of 2 mm, thickness renewed. (wood supplied by ship).
- 13. 43 square meters of tank topplating renewed 12 mm. thick and 25 sq. meters of tank topplating faired in place..
  - 14. Repaired steel hold ladders as instructed.
- 15. Lifeboat No. 4 repaired with 2 multiplex patches 12 mm. thick 0.5 sq. m. Lifeboat davit of No. 2 lifeboat repaired.
- 16. Built new well-insulated oak wood navigation house on flying bridge platform as per drawing No. 112 furnished by Master. Installed existing compass on top of navigation house.
- 17. Made new steel eyebolts and cleats as per sample and installed as directed. (15 in all).
- 18. Installed railings on the crosstree platform of the mainmast 9 m. steel rods 20 mm. dia.
  - 19. 250 cargo batten clamps renewed.
- 20. Made and installed guardcovers on manholes of double bottom tanks, 15 covers 700  $\times$  500  $\times$  120  $\times$  7 mm.
- 21. Built up worn-out places for warping ends of mooring winch and windlass by welding, total 4 drams cast iron dia. 500 mm. with 150 mm.
- 22. Renewed rubber packing of 20 watertight doors about 5 m.  $\times$  30  $\times$  15 mm. rubber per door.
  - 23. Renewed and fitted in place ships' galley range.
- 24. Made and installed 12 bronze wingnuts for the forepeak hatchcovers and for hawsepipe covers.

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- 25. Removed 9 old wooden cargo booms, furnished and installed 9 new booms with capacity of 5 tons, overhauled cargo handling gear, rigged up same, tested according to the rules and furnished certificate (9 booms 17 m. long 310 mm. dis. and supplied 9 spare blocks).
  - 26. Renewed 1 cargo hold ventilator cowl 500 mm. dis.
- 27. Lowered heavy lift boom of 50 tens capacity, disassembled all blocks, vis; 4 quadruple sheave blocks and 4 sheave blocks, reassembled all blocks and re-installed. Re-rigged boom with new wire cables and tested according to the rules and furnished certificate.
- 28. Made and installed 8 new stude in place of missing ones in anchor chains and welded 5 stude. Anchor chains and anchors scaled and wirebrushed, afterwards same painted with oil.
- 29. Made and installed 16 mesh strainers 3 mm. steel on all suction branches of bilge pipelines and attached same to the pipe by means of straps.
- 30. Removed 80 sq. maters old mastic in crews accommodations, alleyways, mand cabins, installed new mastic and painted.
- 31. Nade new steel radderstock 3 m. long, 270 mm. diz. according drawing No. 26699.
- 32. Fermished and installed C.O. 2 fire extinguishing system station (36 bottles) and installed pipelines to engine and boiler rooms as perdrawing furnished by Haster, incl. making new steel decknows.
- 33. Gut off remains of welding from torn off bilgekeel portside, made and installed 10.5 m. new bilgekeel NP 26. Starboard bilgekeel faired in place and crasked welding of bilgekeep chipped out and rewelded.
- M. Tested all heating coils of the double bottom tanks, deeptanks and service fuel tanks and marked defects, excl. repairs or renewals.
- 35. Renewed 30 doorlocks, repaired 11 wooden doors and replaced filling pieces.
  - 36. 15 automatic flushvalves in w.c. bowls renewed. 1 1/2" dia.
  - 37. 5 steel foodbexes in galley repaired, l m x l m x 0.50 m.
- 38. Rubber packing in 60 porthole glasses renewed. dia. 300 mm. rubber 8 x 8 mm.
- 39. Four (4) glass discs made for the engine telegraph with commands in the Russian language dis. 275 pm.
  - 40, 10 mirrors in washing and shower rooms renewed, 500 x 400 am.
- il. Installed telephones in Captain's, Chief Engineer's, Chief Officer's
  Approved For Role 256:2000/05/45 : CIA-ROP 7-9-1010/49A00100@01000207es

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Approved For Release 2010/65/185 DPAAROPTOT01040A001000010002-7 in all). Installed telephone sockets on the eccommodation ladder posts Fort and Starboard. Furnished one partable telephone for Officer on duty.

- 42. Cargo hold and tweendeck walls No. is and 5 scraped, cleaned and warebrushed and painted same with one cost of red lead paint and one cost of grey held paint, total 6300 sq. meters.
  - 13. 3 steel boxes made and fitted re firehoses.
- which creeks in reliber of bulwark in various places of out, V-ed and welded electrically, about 20 m. Two straps made and fitted in bulwark plating 900 x 200 x 10 mm. Bent railbar of bulwark on aftdeck portaide heated and faired in place. One bulwark plate stanchion on portaide midships renewed 1100 x 150 x 10 mm. Bulwark plating on portaide midships cropped, part of plating renewed and welded electrically, incl. stagings, 100 x 100 mm. Bridge stanchion on railbar portaide welded electrically. Missing parts of railwork on aftdeck and boutdeck port and starboardside renewed 2 x 200 x 1 1/2m, 2 x 1000 x 1 1/2m. Hinges of steel doors in mast deckhouse renewed.
- 45. 100 stiffening bars made and welded under tank topplating in No. 2 and 3 double bottom tank, according drawing No. 2849.
- h6. Internal repairs in connection with shellplating repairs in way of the following compartments, vis:

Starboard No. 1, 2, 4, and 5 holds and forward deeptank, Portside No. 1 and 2 holds, forepeak and forward deeptank,

- 3 floorplates partly removed, faired and replaced, total 1.5 m2
- 8 floorplates faired in place.
- 1 tank topplate partly renewed 1.6 m2.
- h channelbar shellframes NF 25 renewed, total 19m.
- h channelbar shellframes NP 25 removed, faired and replaced, total 13.5 m.
- 3 charmelbar shellframes NP 30 removed, faired and replaced, total 12 m.
- 27 charmelbar shellframes faired in place.
- 5 T-bar ice frames renewed, total 24 m.
- 2 bilgs bracket plates removed, faired and replaced, total 3 m.
- 1 bilge bracket plate faired in place.

Various ballast pipes, sirpipes, sounding pipes, cargobattens and degauzing cables removed for access and replaced.

Forepeak bulkhead wingplate partly renewed, total 2 m2.

Cracked upper and lower shellstringer from forepeak bulkhead to frame No. 18 portside, with brackets and angle lugs, renewed.

h deckbeams of tweendeck partly renewed and h deckbeam brackets renewed.
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Deeptank deck and tweendeck faired in place.

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3 shellplates faired in place.

#### 47. Bottomplating

- 3 butts of A strake on starboard side out open, plates faired and afterwards butts welded electrically. Stiffening angle lugs fitted on bottom in way of faired plates. (36 lugs in all) according to drawing No. 2849A.
- h6. Cakwood bookcase and new table for cabin of chief engineer made and fitted.
  - 49. Insulation cellar in No. 1 hold repaired.
  - 50. Canvas covers made and fitted for heavy derrick.
- 51. h chairs, table and 2 doors in captain's room repaired and polished.

  Piano and radio gramephone, also writing desk in cabin of chief engineer polished.
  - 52. Mavigation lights r paired as instructed.
- 53. Supplied on board the following materials, necessary for carrying out the repairs:
- 50 m. 2 1/2" firehoses, 20 kg. graphite, 150 m. Manila rope, 1 1/2 ", 25 brooms, 1100 kg. redlead, 507 kg. deck paint, 1000 kg. topside paint, 15 chipping goggles, 5 l. metal polish, one pair of sail pinchers, 15 sail needles, h l. carter oil and 12 electric globes.

#### B. Engineering

#### 1. Main Engine:

- a. H.P., M.P. and L.P piston junk rings and pistons shimmed up in lathe. Cylinders opened out and reclosed and repacked.
- b. M.P., M.P. and L.P bronze crosshead brasses renewed, dia. 197 mm.

  All crankshaft journals and pins shimmed up in lathe. Main bearings remetalled dia. 360 mm. Crankshaft brought in line. 3 crankpin bearings remetalled.

  Ridges in H.P., M.P. and L.P. cylinders ground out.
- e. Removed all slidevalves, epened out and cleaned for examination. Bronze straps renewed on M.P. slide valve and spare straps supplied. Slide valve rods shimmed up in lathe and packing renewed. Piston rods shimmed up in lathe and packing renewed. Crosshead journals shimmed up and guide slippers adjusted. Ahead and astern guides removed, machined, refitted and lined up. Slide valve gear removed, radius checked, ridges removed and liners fitted. Guide bearings of slide valve rods remetalled. H.P eccentric straps remetalled and eccentric discs shimmed up.

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d. Reversing goar traverse shaft removed, journals shimmed up and bearings renewed.

Rocking lever link bearings opened out, scraped to pins and reclosed and link pins trued up. Thrustshaft opened out, segments scraped, bearing casing cleaned and all closed up.

Main engine governor valve opened out; ground in and reclosed.

- 2. Tunnel shafting and thrust shaft brought in line with orankshaft (5 tunnel bearings dis. 1/20. mm.)
- 3. Airpump bucket remetalled with white metal dim. mm. New Kinghorn valves 20 off supplied and fitted, dim. 100 mm.
- h. Eilge and sanitary pump plungers shismed up, bronze neck and gland bushes renewed, dis. 11h mm.
  - 5. Pump body of dirty oil renewed, dia. 70 mm. (bronse).

#### 6. Boilers:

Boiler mountings opened, ground in, repacked and reclosed. Opened up and reclosed all handhole covers. All he beiler tubes renewed. Boilers tested hydraulically after repairs. Brickwork in both boilers renewed as necessary and covered with brick seal. Sideplates of boilers straightened. Top isolation of both boilers renewed.

Isolation plates on boilers removed, faired and replaced. One leakage between brickwork and isolation at backwall of starboard boiler made tight. 52 stude renewed in furnace front and back front dia.  $1/2^n$  and  $5/8^n$ . Made and installed and furnished 10 diffusers 600 as spare. Furnished 4 special sootblower hoses.

Note: Repairs or renewals of small dis. watertubes not included.

#### 7. Winches!

5 cylinder covers renewed

50 clutch blocks (bronze) renewed.

ló valve seats for steem and exhaust steem valves renewed.

2h slide valve rods renewed 16 mm. dia. 450 mm. long.

10 Ferrode brake linings renewed, length 2.5 m. breath 100 mm.

Slide valve gear of 2 winches overhauled, holes reamed out and pins renewed, dia, 18 mm.

ho piston rings renewed, dis. 160 x 178.

22 piston rods renewed, gland bushes bored out, dia. 37 mm. length 600 mm.

h large tootheheels renewed, 1000 mm. dis. and 6 small tootheheels 400 mm.

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18 winch sylinders insulated, new lagging plates of galv. iron plate made and fitted.

Two heavy winch crankshafts put in laths for examination.

2 main bearings renewed, dia. 100 mm. length 200 mm.

85 m. copper drain pipes renewed, dia. 14 mm.

All bearings of 10 winches opened up and reclosed, excl. renewing of bearings.

#### 8. Refrigerator:

- 2 cylinders of compressor ground out and pistons renewed, dia. 110 mm.
- 2h piston rings and scraper rings renewed.
- 6 thermostats and magneto valves renewed.

Inlet and outlet valves of icebox opened, all coils blown out and cleaned and re-assembled.

#### 9. Steering Engine:

2 cylinder ridges ground out and piston rings renewed, dis. 203 mm.

Two piston rods shimmed up in lathe, neck and gland bushes renewed, dis. 13

mm. long 600

Two nossle rings renewed and fitted on regulating valve dis. 88 mm.

Theomotor receiver disassembled, ground plungers, renewed packing and reassembled.

#### 10. Main Condenser:

1360 condenser tubes supplied and fitted, dia. 19 mm., length 3109 mm. and packing between tube plates and condenser flange renewed.

#### 11. Circulating Pumps Steam Engines

Steam piston shimmed up in lathe and piston rings renewed, dia. 140 mm. Ridges in cylinder ground out.

Crosshead and guide shoe brought in line.

All moving parts of crosshead and crankpin bearings overhauled and scraped, lubricating oil pump overhauled, lubricating oil pipes cleaned and moving parts lined up.

Centrifugal pump opened out; ground off main bearings and shaft brought in line and pump closed up.

#### 12. 3 Dynamos:

Electric generator steam engine - 3 engines.

All moving parts disassembled, cylinder crankcase and armature removed.

Centre lines of shafts lined up and re-installed. Crosshead guides rebored

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and installed. How packing glands made and installed. How steam slide valve rod, bush neck and packing gland made and installed. Crankpin, crosshead bearings, eccentric straps disassembled, oilgroves out and bearings fitted to journals. Crosshead guide slipper removed, slipper and guides scraped. Cylinder, piston rod and crosshead guides ground and re-assembled. Flywheel, governor gear disassembled, cleaned out examined, cleaned out and reassembled. Lubricating oil pipeline removed, cleaned, blown out and re-installed.

#### 13. Ausiliary Condenser Airpumps

Cylinder rebored, new piston rod, bushneck and packing gland bushing made.

Hole in cylinder cover drilled, new stuffing box made, studs installed, new
guide piston rod made.

New piston rings with double grooves made to improve work of piston rings, piston ring expansion springs installed.

Slots in miston rings for expansion springs made.

#### 14. Circulating Pump Auxiliary Condensers

- 6 piston rings renewed 255 mm. cast iron
- 6 bucket rings renewed 300 mm. ebonite
- 6 new piston rings made for steam cast iron

#### 15. Feed Pump No. 2:

Bronze bucket rod renewed, dia, 66 mm. length 1200 mm. Steel piston rod renewed, dia, 65 mm. length 1200 mm. 12 abonite bucket rings renewed, dia, 205 mm.

16. One automatic feed regulating chest renewed in bronze to sample, complete with valves.

#### 17. Fuel Pumps:

16 cast iron piston rings renewed, dia, 191 am. double rings.

16 bronze bucket rings renswed, dia. 191 mm.

Piston rods shimmed up in lathe white metal and neckbuches renewed dia. 35 mm. langth 500 mm.

Automatic valve overhauled and 8 disphrams renewed dis. 130 mm. 8 piston rings for oil piston renewed, dis. 130 mm. (cast iron).

- 18. 7 filters for feedwater filtertank. 12 m2 gause renewed.
- 19. Sanitary pump water cylinders bored out, 2 pistons built up by welding and piston rings renewed, dis. 180 mm. Seat in valve chest lored out, new seat made and fitted and 2 bronze valve lids renewed. Seat 120 mm. bronze, valve lids 120 mm. bronze. SECRET

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- 20. Washwater pump, cylinder cover renewed, cast iron, to sample.
- 21. Firepump 2 cylinders bored out, dia. 280, piston welded up and maclined, h piston rings renewed, abonite.

#### 22. Piping;

Sanitary pump one best pipe renewed, dia, 127 mm. cast iron. Steam and exhaust steampipes in forepeak renewed, dia, 1 x 1/2" - 2" length 60 meters, dia 1 x 1/2" - 1/2" length 50 meters. 20 meters between waterpipes renewed, dia, 3/1" new pipes insulated; 15 meters steam and exhaust steampipes made and fitted in officers bathroom, dia, 1/2" copper, h steam heaters supplied and fitted. 20 bronze tapcocks renewed of hot and cold water system dia, 3/8" - 1/2". 10 bronze valves supplied and fitted for steam radiators 1/2" dia. 10 new sprayer douches (showers) supplied and fitted in washrooms. 12 meters exhaust steam pipeline renewed in galley, dia, 1/2". 150 meters steam and exhaust steampipe line on deck renewed, 75 mm. steel. Pipes insulated.

- 23. 40 manometers overhauled, repaired and tested.
- 2h. One indicator for main engine supplied with the necessary spare springs, type MAYHACK.
- 25. Blow off pipes of both boilers renewed, 12 m. dia. 2" etcel.

  8 m. stemmine of memorial renewed with 2 step valves, dia. 1 x 1/hs steel.

  6 heads of small water turbines made as per sample.

  Condenser of cooling installation tubes and tube plate renewed, like tubes dia.

  16 mm. length 1550 mm.

Slide valve cheats of the 3 steam dynamos bored out to the same size.

Impeller shaft of circulation pump welded up electrically in way of packing bushes and turned off. Both neckbushes renswed.

One length of pipe of hot water tank renewed in steel and one flange renewed on tank.

#### Two Feed Pumps:

Cylinders of both pumps (waterend) bored out to the same size. Pistons welded and turned off on one dismeter.

- 12 abonite piston rings supplied for spare dia. cylinder 240 mm.
- lk m. steel deckwashline ha dia. renewed.
- 28 bronze nipples of evaporator coils renewed.

New supply lines on evaporator made and fitted (as per drawing).

5 new thermometers supplied and fitted, h zero to 150° C., t to h00° C.

Two steel guides for winches made and fitted, as per sample.

770 x 100 x 35 mm. and 2 steel guides 550 x 77 x 32 mm.
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h bronze liners of guide shoes for the heavy winches made and fitted as per CFF.HF.

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sample. 255 x 115 x 20 mm.

2 crankpin and 2 crosshead bearings for winches renewed, bronze 80 x 120.

One winch reversing lever stool renewed as per sample.

6 bridges for steam slide valve levers of winches renewed.

Broken flanges of injector pipe resulted in place.

Branch of inlet condenser renewed, length 200 mm. dia. F.

20 ebenite rings made and supplied, dia. 280 mm.

20 steel inner rings made and supplied.

2 ster spanners made as per sample. 1 x 1/h" - h".

One cast iron flywheel made and supplied as per sample for lifeboat motor dia, 300.

2 pneumerostors for sattling tanks supplied and fitted.

#### Engineers Stores Supplied:

3000 square packing rings for boiler covers.

50 owal packing rings for boiler covers.

10 asbestos manhole cover packing rings.

20 m. rubber hose 1".

15 m. rubber hose 2".

20 Kg. aluminum paint.

200 gram grinding paste.

10 mtr. Ferrode brake Lining.

50 Kg. white enamel paint.

50 Kg. linseed oil.

50 Kg. red patent paint.

50 Kg. waste

5 paintbrushes.

5 Kg. asbestos packing 5/0.

100 kg. telesotor oil.

l sheet klingerit 2 mm. (one square meter).

Steam piston of dynamo No. 1 renewed.

Steam piston rod from centrifugal pump renewed, with new gland and neckboshes.

3 telegraph glasses renewed,

2 telegraph tongues of bells renewed and fitted.

3 electric turbines for watertubes complete, with head and flexible hoses

supplied. (one turnine for he tubes - 2 turbines for 2" tubes).

Crankshaft of dynamo No. 1 shimmed up in lathe, and bearings remetalled.

Shalt of centrifugal pump shimsed up in lathe and bearings remotalled.

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#### Portside Boiler:

Main steam valve, valve lid shimmed up.

Safety valve of steam heater valve lid shimmed up.

Valve lids of safety valve shimmed up.

- 26. Crankshaft of dynamo No. 3 shimmed up in lathe and bearings remetalled. Cover of one steam sylinder renewed.
  - 27. 3 dryers for refrigerator renewed and 3 dryers supplied as spares.
  - 28. Damaged propeller blade edges ground off.

L.P. piston ring renewed.

h steel springs for safety valve of sanitary pump renewed.

Extra pieces for renewing of cast iron piston of sanitary pump supplied.

cylinder cover of No. 1 daynamo renewed.

Steering engine slide valve liner renewed.

5 manometers repaired and tested.

Fan engine slide valve guide rod renewed.

Two stainless steel valve lids of superheater valves renewed.

M.P. and L.F. eccentric rings of main engine remotalled.

Two 1/2" and one 3/4" condenspots (steam traps) supplied.

Cast iron miston of No. 3 dynamo renewed.

Repairs to stringers inside P.S. settling tank.

- 29. Steam smothering pipeline in tweendack No. 1 hold, new deckpiece
- 1 1/2" with coupling made and welded in deck, incl. stagings.
- 6 m 1 1/2" steam smothering pipeline in hold no. (?)

Deeptank No. 2.5.B. 2 Zengths steamspirals welded, 30 clips in deeptanks No.

2.P.S. and S.B. welded.

Deeptanks No. 2 portside & lengths spirals welded together.

- 30. Condenser division plate partly renewed.
- 31. Storage of fuel oil, incl. pumping back on board.
- 32. New spare tail-end-shaft with continuous Muntameta liner made and supplied.
- 33. 2 telemotor valves supplied as per sample on board.

One draincock supplied and fitted on starboard boiler.

42 cast iron bridge pieces for both boilers made, supplied and fitted in place.

Cylinder cover dynamo Ne. 3 renewed.

h intermediate valves of both boilers opened out, valve lid and seat ground

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Condenser cover repaired, copper pasches made and fitted.

Steel pistion rod of sumiliary condenser circulating pump renewed and crosshead shimmed up.

Airpump bucket built up by bronze welding and machined.

Cylinder of suxiliary circulating pump bored out.

Bronze piston built up by welding and machined.

2 leaky flanges in main steamline repacked.

One heavy winch disconnected and transported to workshop, afterwards back to ship and refitted.

Steam and exhaust steam pipes disconnected and removed for access, afterwards pipes reflitted and rejoined. Two frames in way of crankshaft bearings bored out in machine. Inlet valve of refrigerator disconnected, removed and afterwards reflitted.

Valve body bored out, seat renewed and fitted, valve spindle of sanitary pump shimmed up, bronze nut renewed, coeling water line to bearings repaired.

No. The following material supplied for engine department:

50 Kg. paraffin

100 Kg. white enamel paint

0.5 Kg. filter hair

0.3 Kg. lead wire

3 lub. cil cans

Two feelers.

Two carborundum discs.

Five star spanners.

Three screw drivers.

Two freon bottles recharged.

35. One new cast iron condenser door for main condenser made, machined and supplied.

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#### S.S. Stalinbad

The following is a description of the repairs and alterations accomplished at Ambuerp, Belgium during an unspecified period between 1949 and 1952.

#### Hull repairs

Minor hull repairs.

Renewed 4,000 wasted rivets.

#### Engine repairs

Main Engine and shafting realigned.

Rebored air pump cylinder.

Boilers rebricked.

#### Spares Furnished

Twenty (20) main shaft coupling bolts placed aboard.

Main Engine metallic packing and springs for pisten rods and volve rods.

#### Installations and Alterations

Ice stiffening installed, approx. 94,000 pounds steel used,

New galley range installed.

Main engine indicators placed aboard.

# S.S. SOVETSKAYA GAVAN U. S. OFFICIALS ONLY

The following is a description of the repairs and alterations accomplished by the Marnemuende Shipyard, Marnow-Werft, East Germany, during the month of December 1950. The overhead was completed on 10 June 1951.

- e) Replaced cylinders in anchor windlass motor.
- b) Completed rods for remote control of fuel oil slides and valves.
- c) overhauled all fuel line, ballest line and bilge pump line valves in e engine room.
  - d) Took abourd and assembled fire pump, feed pump and cil injection pump.
  - e) Audder house and ventilator socket on navigation deak 95% completed.
  - f) Portside engine room plates aligned.
- g) Starboardside engine room ribs removed and aligned not yet replaced due to lack of material.
- h) Installation of hendrails on boiler room walls and longitudinal walls of engine room 30% completed.
  - i) Tested various tanks for tightness.
  - j) Removed rudder shaft bearing measured shaft and bearing wear.
- k) Overhaul of sandboxes, gun mounts, valve housings, hawser rollers and davits 25% completed.
  - 1) Maindeck and steerage reinforcement 80% completed.
  - m) Continued with derusting eleaning and painting throughout the ship.
- n) Installed temporary heating system in corridors of the various decks and bunkers.
  - o) Continued work on cabin and held heating system.
  - p) Laying cable for electrical equipment.

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#### Enclosure 12

#### S.S. Taras Shevchenke

The following is a description of the repairs and alterations accomplished by the shippard Mavalasceanica, Maples, Italy, during the period 16 April 1952 to 7 July 1952,

- a. External painting and cleaning of hull;
- b. Repairing and renovations of external steel sheets;
- c. Cleaning of fuel tanks;
- d. Hydrostatic tests;
- e. Rudder repairs:
- f. Repairing of propeller and propeller shaft;
- g. Substitution and/or repairs to various pipes;
- h. Revision of intake valves; and
- i. Miscellaneous repairs to meters, holds and bridges.

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# Approved For Release 2 00005/15 CAMP 79T01049A001000010002-7

#### S.S. Tungus

The following repairs and alterations were scheduled for accomplishment at the Netherlands Drydock and Shipbuilding Co., Amsterdam, Metherlands, during the period 5 December 1952 to 9 January 1953.

- Drydock vessel for period of 10 days, including shifting in and out of drydock and examination of underwater parts of the hull, rudder, rudder post, propeller, and lignum vites.
- (2) Remove fouling and clean bottom and bootop and paint with one coat of anti-corrosive and one coat of anti-fouling paints (total area 3500m<sup>2</sup>).

  Remove rust from 500m<sup>2</sup> of bottom and boottopping and scale to metal followed by an additional coat of anti-corrosive paint, repaint waterline 110 am. wide. Repaint draftmarks on stern and stem and Plimosoll marks on both sides. Paint to be supplied by yard.
- (3) Remove, fair and reinstall steal shellplates between frames 10 and 45, port and starboard above the 23 foot w terline. Plates are 14 15 mm. thick, total area of plate is 100m<sup>2</sup>. Includes hose testing.
- (4) Henew 5 steelplates of outer shell plating between frames 10 and 45 at the 23 foot waterline. 45m<sup>2</sup> of plates 14 16 mm. thick. Includes hose testing.
- (5) Renew 3 steelplates of outer shell plating at Hold No. 1 between frames 30 and 42 at the 12 foot waterline. 36m2 of plates 16 18 mm. thick.

  Includes hose testing.
- (6) In damaged sections of the hull mentioned above in items 3, 4, and 5 of the specifications:
  - a. Fair frames on port and starboard sides (18).
  - b. Renew frames (6), including hose testing (Dimensions of frames calculated at 5000 mm. x  $12^n$  x  $14^n$  x  $14^n$  x  $18^n$ ).
  - c. Fair two bulkheads between holds No. 1 and 2, remove and reinstall bulkhead stiffeners, 50m2 total. Includes hose testing.
  - d. Fair two side stringers, weld cracks and reinstall. 16 running m. in total.
- (7) Renew 4500 rivets in the outer shellplating above and below waterline on both sides; 25mm. Includes stages and hose testing.
- (8) Weld up 600 rivets in various places of the hull # 25mm.

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(9) Renew 10m<sup>2</sup> of bottomplating, thickness 17 19 mm.

- (10) Cut out and reweld 220m, of butts and seems in shellplating; h50m, butts and seems to be cleaned, wirebrushed and preserved with white lead.
- (11) Forepeak and afterpeak (195m3)
  - a. Remove 50% of all cement.
  - b. Scrape and wirebrush steelplates to bare metal.
  - c. Test with water pressure.
  - d. Cement wash with two costs.
- (12) 6 fresh water tanks (drinking water, bakery, laundry, cofferdam) (160m3).
  - s. Remove old cement and scrape and wirebrush to bare metal.
  - b. Test tanks.
  - c. Paint with two costs of red lead.
- (13) Sixteen ballast tanks, fuel oil tanks, deeptanks and lubricating oil tanks. (2930m3).
  - a. Clean and clear of gas.
  - b. Test with water pressure.
- (1h) Three boiler cofferdams and No. h boiler feedwater tank (230m3).
  - g. Remove old cement.
  - b. Scrape and wirebrush to bare metal.
  - c. Test all tanks.
  - d. Paint with two costs of cement wash.
- (15) Sea connections and valves.
  - a. Open covers and inspect.
  - b. Disassemble see valves.
  - c. Orind valves and seats.
  - d. Machine valves and sents if necessary.
  - , c. Rossemble.
  - I. Renew zine plates.
- (16) Before shifting vessel into dock the propeller-shaft, intermediate and thrust shafts, and crank shaft are to be disconnected. Hessure edges and displacement of the shafts (before and after docking): h ca.
- (17) Remove propeller shaft. Check wear of stern tube and rones lignum vitae, if required. Semove any discovered defects of the propeller shaft.
- (18) Fair bulwark and bulwark rails.

Fair bulwark stanchions:

Rails and bulwarks ho running m.

- (19) Hull above boottopping.
  - a. Clean and wirebrush on both sides.
  - b. Paint bare spots with two coats of red lead.
  - c. Apply one coat of paint.
  - d. Paint name of vessel and port of registry in Ruseian and Latin letters on bow and stern.
- (20) Chip, wirebrush to bare metal and paint with 2 costs of red lead 50% (4500 sq.m.) of all steel in cargoholds and tweendecks, including sides, frames, beams, pillars stringers, knees, angle-stiffeners, both sides of tweendeck and lower part of maindeck. Scrape and wirebrush remainder of the steelwork (4500 sq.m.). Paint all steelwork (9000 sq. m.) with one cost of grey paint. Excludes painting of cargo bottoms and wooden hatchcovers. Includes stages and supply of paint.
- (21) Chip and paint bulwark and stanchions with two coats of red lead and two coats of grey paint (400 sq. m.).
- (22) Reserve for additional work and for probable alterations in the above items.

SECRET U. S. OFFICIALS ONLY

MAINTENANCE, REPAIRS AND ALTERATIONS OF U.S. MERCHANT SHIPS UNDER LEND LEASE TO THE U.S.S.R.

ORR PROJECT NO. 00.564 PART B

COPY NO. 3

SECRET